

CLAIMS

1. A method for preparing polyester copolymer containing amide link, wherein the method comprises the step of polymerizing macrocyclic polyester oligomer and cyclic amide monomer.

5 2. The method for preparing polyester copolymer of claim 1, wherein the macrocyclic polyester oligomer includes the repeating unit of the following formula.



Wherein, X represents alkylene radical or oxyalkylene radical having 2 to 6 carbon atoms, and Y represents aliphatic, aromatic or alicyclic radical, and the number of the repeating unit in the macrocyclic polyester oligomer is 1 to 50.

10 3. The method for preparing polyester copolymer of claim 1, wherein the macrocyclic polyester oligomer is obtained by reacting bis(hydroxyalkyl)ester with dicarboxylic acid chloride in the presence of unhindered amine.

15 4. The method for preparing polyester copolymer of claim 3, wherein the bis(hydroxyalkyl)ester is obtained by depolymerizing polyester resin.

5. The method for preparing polyester copolymer of claim 3, wherein the cyclic amide monomer is ϵ -caprolactam having a cyclic structure and having 2 or more carbon atoms.

20 6. The method for preparing polyester copolymer of claim 1, wherein the amount of the macrocyclic polyester oligomer is 5 to 99% by weight with respect to total amount of the macrocyclic polyester oligomer and the cyclic amide monomer.